<u>RAW SEQUENCE LISTING</u>

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: *10/594,118*

Source: *6FWP*

Date Processed by STIC: *10/11/06*

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/594,118_

CRF Edit Date: _10/11/06_
Edited by: _AZ_

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

_✓_ Deleted: _✓_ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

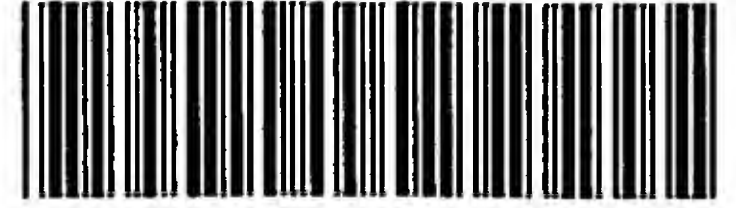____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other:

_____
_____
_____

Revised 09/09/2003

IFWP

RAW SEQUENCE LISTING   DATE: 10/11/2006
PATENT APPLICATION: US/10/594,118   TIME: 15:22:10

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\10112006\J594118.raw**

```
         2 <110> APPLICANT: Golz, Stefan
         3        Bruggemeier, Ulf
         4        Geerts, Andrease
         6 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
         7        Peroxisome Proliferator Activated Receptor Delta (PPARD)
W-->     8 <130> FILE REFERENCE: 004974.01218
C-->    10 <140> CURRENT APPLICATION NUMBER: US/10/594,118
C-->    10 <141> CURRENT FILING DATE: 2006-09-25
        10 <150> PRIOR APPLICATION NUMBER: PCT/EP2005/002529
        11 <151> PRIOR FILING DATE: 2005-03-10
        13 <150> PRIOR APPLICATION NUMBER: EP 04007020.3
        14 <151> PRIOR FILING DATE: 2004-03-24
        16 <160> NUMBER OF SEQ ID NOS: 5
        17 <170> SOFTWARE: PatentIn version 3.2
W-->    18 <210> SEQ ID NO: 1
        19 <211> LENGTH: 3301
        20 <212> TYPE: DNA
        21 <213> ORGANISM: Homo sapiens
W-->    22 <220> FEATURE:
        23 <221> NAME/KEY: misc_feature
        24 <222> LOCATION: (2966)..(2972)
        25 <223> OTHER INFORMATION: n is a, c, g, or t
W-->    26 <400> SEQUENCE: 1
        27 gaattctgcg gagcctgcgg gacggcggcg ggttggcccg taggcagccg ggacagtgtt      60
        28 gtacagtgtt ttgggcatgc acgtgatact cacacagtgg cttctgctca ccaacagatg     120
        29 aagacagatg caccaacgag ggtctggaat ggtctggagt ggtctggaaa gcagggtcag     180
        30 atacccctgg aaaactgaag cccgtggagc aatgatctct acaggactgc ttcaaggctg     240
        31 atgggaacca ccctgtagag gtccatctgc gttcagaccc agacgatgcc agagctatga     300
        32 ctgggcctgc aggtgtggcg ccgaggggag atcagccatg gagcagccac aggaggaagc     360
        33 ccctgaggtc cgggaagagg aggagaaaga ggaagtggca gaggcagaag gagccccaga     420
        34 gctcaatggg ggaccacagc atgcacttcc ttccagcagc tacacagacc tctcccggag     480
        35 ctcctcgcca ccctcactgc tggaccaact gcagatgggc tgtgacgggg cctcatgcgg     540
        36 cagcctcaac atggagtgcc gggtgtgcgg ggacaaggca tcgggcttcc actacggtgt     600
        37 tcatgcatgt gaggggtgca agggcttctt ccgtcgtacg atccgcatga agctggagta     660
        38 cgagaagtgt gagcgcagct gcaagattca gaagaagaac cgcaacaagt gccagtactg     720
        39 ccgcttccag aagtgcctgg cactgggcat gtcacacaac gctatccgtt ttggtcggat     780
        40 gccggaggct gagaagagga agctggtggc agggctgact gcaaacgagg ggagccagta     840
        41 caacccacag gtggccgacc tgaaggcctt ctccaagcac atctacaatg cctacctgaa     900
        42 aaacttcaac atgaccaaaa agaaggcccg cagcatcctc accggcaaag ccagccacac     960
        43 ggcgcccttt gtgatccacg acatcgagac attgtggcag gcagagaagg ggctggtgtg    1020
        44 gaagcagttg gtgaatggcc tgcctcccta caaggagatc agcgtgcacg tcttctaccg    1080
        45 ctgccagtgc accacagtgg agaccgtgcg ggagctcact gagttcgcca agagcatccc    1140
        46 cagcttcagc agcctcttcc tcaacgacca ggttaccctt ctcaagtatg gcgtgcacga    1200
```

```
47 ggccatcttc gccatgctgg cctctatcgt caacaaggac gggctgctgg tagccaacgg 1260
48 cagtggcttt gtcacccgtg agttcctgcg cagcctccgc aaacccttca gtgatatcat 1320
49 tgagcctaag tttgaatttg ctgtcaagtt caacgccctg gaacttgatg acagtgacct 1380
50 ggccctattc attgcggcca tcattctgtg tggagaccgg ccaggcctca tgaacgttcc 1440
51 acgggtggag gctatccagg acaccatcct gcgtgccctc gaattccacc tgcaggccaa 1500
52 ccaccctgat gcccagtacc tcttccccaa gctgctgcag aagatggctg acctgcggca 1560
53 actggtcacc gagcacgccc agatgatgca gcggatcaag aagaccgaaa ccgagacctc 1620
54 gctgcaccct ctgctccagg agatctacaa ggacatgtac taacggcggc acccaggcct 1680
55 ccctgcagac tccaatgggg ccagcactgg aggggcccac ccacatgact tttccattga 1740
56 ccagctctct tcctgtcttt gttgtctccc tctttctcag ttcctctttc ttttctaatt 1800
57 cctgttgctc tgtttcttcc tttctgtagg tttctctctt cccttctccc ttctcccttg 1860
58 ccctccctt ctctctccta tccccacgtc tgtcctcctt tcttattctg tgagatgttt 1920
59 tgtattattt caccagcagc atagaacagg acctctgctt ttgcacacct tttccccagg 1980
60 agcagaagag agtgggcctg ccctctgccc catcattgca cctgcaggct taggtcctca 2040
61 cttctgtctc ctgtcttcag agcaaaagac ttgagccatc caaagaaaca ctaagctctc 2100
62 tgggcctggg ttccagggaa ggctaagcat ggcctggact gactgcagcc ccctatagtc 2160
63 atggggtccc tgctgcaaag gacagtggca gaccccggca gtagagccga gatgcctccc 2220
64 caagactgtc attgcccctc cgatcgtgag gccacccact gacccaatga tcctctccag 2280
65 cagcacacct cagccccact gacacccagt gtccttccat cttcacactg gtttgccagg 2340
66 ccaatgttgc tgatggcccc tccagcacac acacataagc actgaaatca ctttacctgc 2400
67 aggcaccatg cacctccctt ccctccctga ggcaggtgag aacccagaga gaggggcctg 2460
68 caggtgagca ggcagggctg ggccaggtct ccggggaggc aggggtcctg caggtcctgg 2520
69 tgggtcagcc cagcacctcg cccagtggga gcttcccggg ataaactgag cctgttcatt 2580
70 ctgatgtcca tttgtcccaa tagctctact gccctcccct tcccctttac tcagcccagc 2640
71 tggccaccta gaagtctccc tgcacagcct ctagtgtccg gggaccttgt gggaccagtc 2700
72 ccacaccgct ggtccctgcc ctcccctgct cccaggttga ggtgcgctca cctcagagca 2760
73 gggccaaagc acagctgggc atgccatgtc tgagcggcgc agagccctcc aggcctgcag 2820
74 gggcaagggg ctggctggag tctcagagca cagaggtagg agaactgggg ttcaagccca 2880
75 ggcttcctgg gtcctgcctg gtcctccctc ccaaggagcc attctatgtg actctgggtg 2940
```
W--> 76 gaagtgccca gcccctgcct gacggnnnnn nngatcactc tctgctggca ggattcttcc 3000
```
77 cgctccccac ctacccagct gatggggggtt ggggtgcttc tttcagccaa ggctatgaag 3060
78 ggacagctgc tgggacccac ctcccccctt ccccggccac atgccgcgtc cctgcccccca 3120
79 cccgggtctg gtgctgagga tacagctctt ctcagtgtct gaacaatctc caaaattgaa 3180
80 atgtatattt ttgctaggag ccccagcttc ctgtgttttt aatataaata gtgtacacag 3240
81 actgacgaaa ctttaaataa atgggaatta aatatttaaa aaaaaaagcg gccgcgaatt 3300
82 c                                                                  3301
83 <210> SEQ ID NO: 2
84 <211> LENGTH: 441
85 <212> TYPE: PRT
86 <213> ORGANISM: Homo sapiens
```
W--> 87 <400> SEQUENCE: 2
```
88 Met Glu Gln Pro Gln Glu Glu Ala Pro Glu Val Arg Glu Glu Glu Glu
89 1               5                   10                  15
90 Lys Glu Glu Val Ala Glu Ala Glu Gly Ala Pro Glu Leu Asn Gly Gly
91             20                  25                  30
92 Pro Gln His Ala Leu Pro Ser Ser Ser Tyr Thr Asp Leu Ser Arg Ser
93         35                  40                  45
94 Ser Ser Pro Pro Ser Leu Leu Asp Gln Leu Gln Met Gly Cys Asp Gly
95     50                  55                  60
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/594,118

DATE: 10/11/2006
TIME: 15:22:10

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\10112006\J594118.raw**

```
96 Ala Ser Cys Gly Ser Leu Asn Met Glu Cys Arg Val Cys Gly Asp Lys
97 65                  70              75                  80
98 Ala Ser Gly Phe His Tyr Gly Val His Ala Cys Glu Gly Cys Lys Gly
99        .            85              90                  95
100 Phe Phe Arg Arg Thr Ile Arg Met Lys Leu Glu Tyr Glu Lys Cys Glu
101             100             105             110
102 Arg Ser Cys Lys Ile Gln Lys Lys Asn Arg Asn Lys Cys Gln Tyr Cys
103    ·        115             120             125
104 Arg Phe Gln Lys Cys Leu Ala Leu Gly Met Ser His Asn Ala Ile Arg
105        130             135             140
106 Phe Gly Arg Met Pro Glu Ala Glu Lys Arg Lys Leu Val Ala Gly Leu
107 145             150             155                 160
108 Thr Ala Asn Glu Gly Ser Gln Tyr Asn Pro Gln Val Ala Asp Leu Lys
109               165             170             175
110 Ala Phe Ser Lys His Ile Tyr Asn Ala Tyr Leu Lys Asn Phe Asn Met
111        180             185             190
112 Thr Lys Lys Lys Ala Arg Ser Ile Leu Thr Gly Lys Ala Ser His Thr
113        195             200             205
114 Ala Pro Phe Val Ile His Asp Ile Glu Thr Leu Trp Gln Ala Glu Lys
115    210             215             220
116 Gly Leu Val Trp Lys Gln Leu Val Asn Gly Leu Pro Pro Tyr Lys Glu
117 225             230             235                 240
118 Ile Ser Val His Val Phe Tyr Arg Cys Gln Cys Thr Thr Val Glu Thr
119               245             250             255
120 Val Arg Glu Leu Thr Glu Phe Ala Lys Ser Ile Pro Ser Phe Ser Ser
121        260             265             270
122 Leu Phe Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly Val His Glu
123        275             280             285
124 Ala Ile Phe Ala Met Leu Ala Ser Ile Val Asn Lys Asp Gly Leu Leu
125    290             295             300
126 Val Ala Asn Gly Ser Gly Phe Val Thr Arg Glu Phe Leu Arg Ser Leu
127 305             310             315                 320
128 Arg Lys Pro Phe Ser Asp Ile Ile Glu Pro Lys Phe Glu Phe Ala Val
129               325             330             335
130 Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp Leu Ala Leu Phe Ile
131        340             345             350
132 Ala Ala Ile Ile Leu Cys Gly Asp Arg Pro Gly Leu Met Asn Val Pro
133  .      355             360             365
134 Arg Val Glu Ala Ile Gln Asp Thr Ile Leu Arg Ala Leu Glu Phe His
135    370  .          375             380
136 Leu Gln Ala Asn His Pro Asp Ala Gln Tyr Leu Phe Pro Lys Leu Leu
137 385             390             395                 400
138 Gln Lys Met Ala Asp Leu Arg Gln Leu Val Thr Glu His Ala Gln Met
139               405             410             415
140 Met Gln Arg Ile Lys Lys Thr Glu Thr Glu Thr Ser Leu His Pro Leu
141               420             425             430
142 Leu Gln Glu Ile Tyr Lys Asp Met Tyr
143        435             440
144 <210> SEQ ID NO: 3
```

RAW SEQUENCE LISTING   DATE: 10/11/2006
PATENT APPLICATION: US/10/594,118   TIME: 15:22:10

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\10112006\J594118.raw**

```
        145 <211> LENGTH: 19
        146 <212> TYPE: DNA
        147 <213> ORGANISM: artificial sequence
W-->    148 <220> FEATURE:
        149 <223> OTHER INFORMATION: forward primer
W-->    150 <400> SEQUENCE: 3
        151 cagtactgcc gcttccaga                                    19
        152 <210> SEQ ID NO: 4
        153 <211> LENGTH: 20
        154 <212> TYPE: DNA
        155 <213> ORGANISM: artificial sequence
W-->    156 <220> FEATURE:
        157 <223> OTHER INFORMATION: reverse primer
W-->    158 <400> SEQUENCE: 4
        159 catccgacca aaacggatag                                   20
        160 <210> SEQ ID NO: 5
        161 <211> LENGTH: 24
        162 <212> TYPE: DNA
        163 <213> ORGANISM: artificial sequence
W-->    164 <220> FEATURE:
        165 <223> OTHER INFORMATION: probe
W-->    166 <400> SEQUENCE: 5
        167 ctggcactgg gcatgtcaca caac                              24
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/11/2006
PATENT APPLICATION: US/10/594,118   TIME: 15:22:11

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\10112006\J594118.raw**

Please Note:
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:1; N Pos. 2966,2967,2968,2969,2970,2971,2972

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/594,118**

DATE: 10/11/2006
TIME: 15:22:11

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\10112006\J594118.raw**

```
L:8 M:283 W: Missing Blank Line separator, <130> field identifier
L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:18 M:283 W: Missing Blank Line separator, <210> field identifier
L:22 M:283 W: Missing Blank Line separator, <220> field identifier
L:26 M:283 W: Missing Blank Line separator, <400> field identifier
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2940
L:87 M:283 W: Missing Blank Line separator, <400> field identifier
L:148 M:283 W: Missing Blank Line separator, <220> field identifier
L:150 M:283 W: Missing Blank Line separator, <400> field identifier
L:156 M:283 W: Missing Blank Line separator, <220> field identifier
L:158 M:283 W: Missing Blank Line separator, <400> field identifier
L:164 M:283 W: Missing Blank Line separator, <220> field identifier
L:166 M:283 W: Missing Blank Line separator, <400> field identifier
```